Form PTO-1449

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## INFORMATION CLOSURE CITATION

Attorney Docket No. Serial No. 10/686,925 050119-1072 Applicant Jones

Document Number 4,812,843 5,483,454 5,955,974 6,006,159 6,124,810 6,137,425 6,184,802 6,191,708 6,253,148	U.S. PA Date  03/14/89 01/09/96 09/21/99 12/21/99 09/26/00 10/24/00 02/06/01 02/20/01	Champion, III, et al. Lewiner, et al. Togawa Schmier, et al. Segal, et al. Oster, et al. Lamb	ne	Class  340  364  340  701  340	905 443 994 200 994	Filing I If Appro 08/11 04/29 03/13	priate /87 /94
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	D	5.594,787	01/14/97	Ohshima, et a	al.		379	114		07/19/9	95
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		В	3,845,289	10/29/74	French			235	151.2		
			3,886,515	05/1975	Cottin, et al.			340	994		
		D	3,934,125	01/20/76	Macano			235	150.2		
		E	4,220,946	09/02/80	Henriot			340	23	04/20/	78
		F	4,297,672	10/27/81	Fruchey, et a	al.		340	23		·
		G	4,325,057	04/13/82	Bishop			340	539		
		Н	4,350,969	09/21/82	Greer			340	23		
		I	4,525,601	06/25/85	Barnich, et.	AI.		379	7MM	12/13/	33
	,	J	4,585,904	04/29/86	Mincone, et	al.	- "	179	7.1 TP	01/06/	34
7		K	4,713,661	12/15/87	Boone, et al.			340	994	-	
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BAS		4,791,571	12/13/88	Takahashi, et a	l.	364	436		
	В	4,799,162	01/17/89	Shinkawa, et al	•	364	436		
	С	4,804,837	02/14/89	Farley		250	251	01/11/8	38
	D	4,812,843	03/14/89	Champion III, e	t al.	340	905		
	E	4,813,065	03/14/89	Segala		379	112	10/13/8	37
		4,857,925	08/15/89	Brubaker		340	994	01/11/8	38
	G	4,956,777	09/11/90	Cearley, et al.		364	424.02		
		5,003,584	03/26/91	Benyacar,e t al.		379	119	04/16/9	90
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		5,014,206	05/07/91	Scribner, et al.		364	449	08/22/8	38
V	K	5,021,780	06/04/91	Fabiano, et al.		340	994		
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	В	5,048,079	09/10/91	Harrington, et a	<b>.</b>	379	112		08/10/9	<del>3</del> 0
		5,068,656	12/21/90	Sutherland		340	989		12/21/9	<del>3</del> 0
	D	5,103,475	04/07/92	Shuen		379	115		10/29/9	<del>)</del> 0
		5,113,185	05/12/92	Ichikawa		340	995			
		5,121,326	06/09/92	Moroto, et al.		364	449			
		5,122,959	06/16/92	Nathanson, et a	ıl.	364	436			
		5,131,020	07/14/92	Liebesney, et al		379	59			
		5,144,301	09/01/92	Jackson, et al.		340	994			
		5,146,491	09/08/92	Silver, et al.		379	114		08/08/9	<del>)</del> 1
	K	5,155,689	10/13/92	Wortham		364	460			
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	С	5,218,629	06/08/93	Dumond, Jr., et	al.	379	59		
	D	5,218,632	06/08/93	Cool		379	126	10/16/9	91
	E	5,223,844	06/29/93	Mansell, et al.		342	357	<u> </u>	
	F	5,243,529	09/07/93	Kashiwazaki		364	449	06/29/9	92
	G	5,263,260	04/22/97	Jones	<del></del>	340	994		
	Н	5,299,132	03/29/94	Wortham		364	460		
	I	5,323,456	06/21/94	Oprea		379	375		
	J	5,351,194	09/27/94	Ross, et al.		364	449		
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		С	5,394,332	02/28/95	Kuwahara, et al	•	364	449	T	
		D	5,398,190	03/14/95	Wortham		364	460		-
		Е	5,400,020	03/21/95	Jones		340	994		
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		G	5,432,841	07/11/95	Rimer		379	59		
		Н	5,440,489	08/08/95	Newman		364	426.05	01/21/9	93
		Ī	5,444,444	08/22/95	Ross		340	994		
		J	5,448,479	09/05/95	Kemner, et al.		365	424.02		
		K	5,461,374	10/24/95	Lewiner, et al.		340	994		
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		D	5,493,694	02/20/96	Vlcek, et al.		455	53.1		-
		E	5,506,893	04/09/96	Buscher, et al.		379	114	11/29/	94
		F	5,515,421	05/07/96	Sikand, et al.		379	67	07/26/	94
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С	5,577,101	11/19/96	Bohm		379	58	04/10/9	<del>)</del> 6
D	5,579,376	11/26/96	Kennedy III, et	al.	379	60		
Е	5,587,715	12/24/96	Lewis		342	357		
F	5,594,650	01/14/97	Shah, et al.		364	449.1		
	5,602,739	02/11/97	Haagenstad, e	t al.	364	436	11/22/9	<del>)</del> 5
Н	5,623,260	04/22/97	Jones		340	994		
I	5,648,770	07/15/97	Ross		340	994		
	5,652,707	07/29/97	Wortham		364	460		
K	5,657,010	08/12/97	Jones		340	994		
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BAS	A	5,668,543	09/16/97	Jones		340	994		
1	В	5,673,305	09/30/97	Ross		379	58		
	С	5,694,322	12/02/97	Westerlage, et	al.	364	464		
	D	5,694,459	12/02/97	Backaus, et al.		379	427	01/16/9	97
	E	5,699,275	12/16/97	Beasley, et al.		364	514 R		
	F	5,712,908	01/27/98	Brinkman, et al.	•	379	119	05/17/9	96
	G	5,715,307	03/03/98	Zazzera		379	265	04/18/9	96
	H	5,719,771	02/17/98	Buck, et al.		364	443		
	I	5,724,243	03/03/89	Westerlage, et	al.	364	446	02/10/9	95
	J	5,724,584	03/03/98	Peters, et al.		395	671	08/15/9	96
1/	K	5,729,597	03/17/98	Bhusri		379	115	05/16/9	95
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BAS	A	5,732,074	03/24/98	Spaur, et al.		370	313	1	
	<del></del>	5,736,940	04/07/98	Burgener		340	994		
	С	5,739,774	04/14/98	Olandesi		340	994	07/12/9	96
		5,742,672	04/21/98	Burk		379	198	07/18/9	95
	E	5,751,245	05/12/98	Janky, et al.		342	357	<b>—</b>	
	F	5,760,742	06/02/98	Branch, et al.		342	457	08/20/9	97
	G	5,771,282	06/23/98	Friedes		379	121	12/04/9	96
	Н	5,771,455	06/23/98	Kennedy III, et a	al.	455	456	<del>                                     </del>	
	I	5,781,156	07/14/98	Krasner		342	357	04/23/9	97
	J	5,784,443	07/21/98	Chapman, et al.		379	119	02/01/9	96
Y	K	5,793,853	08/11/98	Sbisa		379	120	06/22/9	95
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BAS	A	5,796,365	08/18/98	Lewis		342	357		
	В	5,799,073	08/25/98	Fleischer, III, et	.al.	379	113	06/07/9	95
	С	5,799,263	08/25/98	Culbertson		701	117		
	D	5,805,680	09/08/98	Penzias		379	118	01/02/9	96
	E	5,808,565	09/15/98	Matta, et al.		340	994		
	F	5,835,580	11/10/98	Frazer		379	115	04/04/9	96
	G	5,841,847	11/24/98	Graham, et al.		379	114	04/11/9	97
	H	5,864,610	01/26/99	Ronen		379	127	01/26/9	98
	I	5,875,238	02/23/99	Glitho, et al.		379	116	12/21/9	95
		5,881,138	03/09/99	Kearns, et al.		379	114	04/25/9	97
1	√ к 5,910,979 06/08/99 Goel,		Goel, et al.		379	120	10/20/9	97	
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BAS	Α	5,912,954	06/15/99	Whited, et al.		379	115	12/31/9	97
	В	5,915,006	06/22/99	Jagadish, et al.		379	127	05/01/9	97
	С	5,920,613	07/06/99	Alcott, et al.		379	114	04/25/9	97
	D	5,922,040	07/13/99	Prabhakaran		701	117		
	E	5,937,044	08/10/99	Kim		379	121	09/30/9	96
	F	5,943,320	08/24/99	Weik, et al.		370	259	12/12/9	96
	G	5,943,406	08/24/99	Leta, et al.		379	120	09/30/9	97
	Н	5,943,657	08/24/99	Freestone, et al	1.	705	400	09/30/9	96
	I	5,945,919	08/31/99	Trask		340	825.491		
	J	5,946,379	08/31/99	Bhusri		379	115	07/31/9	98
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BAS	Α	5,952,659	12/22/98	Welter, Jr.		379	116	12/29/9	95
1	В	5,955,974	09/21/99	Togawa		340	994		
	С	5,956,391	09/21/99	Melen, et al.		379	114	02/10/9	97
	D	5,982,864	11/09/99	Jagadish, et al.		379	115	05/01/9	97
		5,987,103	11/16/99	Jagadish, et al.		379	114	03/19/9	97
	F	5,987,377	11/16/99	Westerlage, et	al.	701	204	03/02/9	98
	G	5,991,377	11/23/99	Malik		379	114	08/11/9	97
		5,991,380	11/23/99	Bruno, et al.		379	115	10/21/9	97
	I	5,991,381	11/23/99	Bouanaka, et al	•	379	115	10/30/9	97
	J	5,995,602	11/30/99	Johnson, et al.		379	116	03/24/9	99
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BAS	A	6,111,538	08/2000	Schuchman, et	al.	342	357		
		6,124,810	09/26/00	Segal, et al.		340	994		
	+	6,134,501	10/17/00	Oumi		701	209	08/31/9	8
	<del></del>	6,137,425	10/24/00	Oster, et al.		340	994	11/24/9	98
		6,144,301	11/07/00	Frieden		340	572.8	02/10/9	97
		6,178,378	01/23/01	Leibold		701	202	04/30/9	99
		6,184,802	02/06/01	Lamb		340	994		
- 1		6,191,708	02/20/01	Davidson		340	994		
		6,253,148	06/26/01	Decaux, et al.		701	204		
	<u> </u>	6,278,936	08/21/01	Jones		701	201		
	K	6,313,760	11/06/01	Jones		340	994	<u> </u>	
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		С	6,363,254	03/26/02	Jones, et al.		455	456		
		D	6,363,323	03/26/02	Jones		701	213		
		E	6,374,176	04/16/02	Schmier, et al.		701	200		
		F	6,400,956	06/04/02	Richton		455	456	1	-
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		I	6,486,801	11/26/02	Jones		340	994	<u> </u>	-
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	C	08/852,119	05/06/97	Jones						
	D'	09/516,288	03/01/00	Jones						
	E -	09/163,588	09/30/98	Jones			-			
	F-	10/435,767	05/12/03	Jones						
	G-	10/436,346	05/12/03	Jones						-
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		В	2002/0098802A1	05/29/03	Jones		340	994	11/20	/02
		С	2002/0099500A1	07/25/02	Schmier, et al.		701	200	02/01	/02
		D	4,894,649	01/16/90	Davis		340	825.44	01/07	/88
		E	5,097,429	03/17/92	Wood, et al.		364	569	04/23	/90
		F	5,271,484	12/21/93	Bahjat, et al.		187	29.1	04/10	/91
		G	5,428,546	06/27/95	Shah, et al.		364	449	10/16	/92
		Н	5,446,678	08/29/95	Saltzstein, et al.		364	514	12/18	/92
		I	5,570,100	10/29/96	Grube, et al.		364	446	03/10	/94
		J	5,680,119	10/21/97	Magliari, et al.		340	904	06/06	/96
		K	5,513,111	04/30/96	Wortham		364	460	07/22	/94
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Page 20 of 34 Form PTO-1449 Attorney Docket No. Serial No. 050119-1072 10/686,925 N DISELOSURE CITATION **INFORMA Applicant** Jones (Use several sheets if necessary) Filing Date Group 10/16/03 3661 **U.S. PATENT DOCUMENTS** Examiner Item Document Date Name Class Subclass Filing Date **Initials** Number If Appropriate BAS Α 5,734,981 03/31/98 Kennedy, III, et al. 455 445 03/17/95 В 5,774,825 06/30/98 Reynolds 364 449.7 10/18/95 C 5,808,565 09/15/98 Matta, et al. 994 340 03/21/97 D 6,094,149 07/25/00 Wilson 340 904 10/03/97 E 6,097,317 08/01/00 Lewiner, et al. 994 340 04/30/97 F 6,222,462 04/24/01 Hahn 340 904 05/13/99 G 6,240,362 05/29/01 Gaspard II 701 209 10/19/00 H 6,253,146 06/26/01 Hanson, et al. 701 202 12/06/99 I 6,618,668 09/09/03 Laird 701 200 04/26/00 J K FOREIGN PATENT DOCUMENTS Document Date Country Class Subclass Translation Number Yes No BAS L WO 94/02922 02/03/94 **PCT** G08G 1/123 X M WO 94/27264 11/24/94 **PCT** G08G 1/123 Х N WO 96/04634 02/15/96 **PCT** G08G 5/22 X 0 WO 96/16386 05/30/96 **PCT** G08G 1/123 X OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) Preiss, George; Jenson, Lillian; "The Satref and GPS Information Projects", 1992 IEEE - 3rd International Conference BAS on Vehcile Navigation Information Systems, ppp. 648-655. "Vehicle Navigation & Information Systems Conference Proceedings" (P-253), Society of Automotive Engineers, Inc., October 1991, pp. 789-796. "1992 Compendium of Technical Papers", Institute of Transportation Engineers - INRAD: A Deminostration of Two-Way Roadway to Vehicle Communication for use in Traffic Operations", Annual Meeting, Washington, D.C.

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Form PTO-1449 Attorney Docket No. Serial No. 050119-1072 10/686,925 **SCLOSURE CITATION Applicant** Jones Filing Date (Use several sheets if necessary) Group 10/16/03 3661 U.S. PATENT DOCUMENTS Examiner Item Document Date Name Class Subclass Filing Date **Initials** Number If Appropriate BAS AA 5,448,479 09/05/95 Kemner, et al. 365 424.02 Ichikawa AB 5,113,185 05/12/92 340 995 AC 4,956,777 09/11/90 Cearley, et al. 364 424.02 AD 5,131,020 07/14/92 Liebesny, et al. 379 59 Dumond, Jr., et al. ΑE 5,218,629 06/08/93 379 59 AF 5,144,301 09/01/92 Jackson, et al. 340 994 AG 5,493,295 02/20/96 Lewiner, et al. 994 340 AΗ 5,652,707 07/29/97 Wortham 364 460 ΑI 5,657,010 08/12/97 Jones 340 994 ΑJ 5,351,194 09/27/94 Ross, et al. 364 449 ΑK 5,121,326 06/09/92 Moroto, et al. 449 364 FOREIGN PATENT DOCUMENTS Document Date Country Class Subclass Translation Number Yes No BAS AL 63288400 11/88 Japan G08G1 12 X AM 52066175 06/01/77 Japan Х AN 2 559 930 08/23/85 France G08G1 12 X 2674355 France OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.) \* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant. EXAMINER'S SIGNATURE:

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1	AQ	4,350,969	09/21/82	Greer		340	23		
	AR	5,539,810	07/23/96	Kennedy, III, et al.		379	59		
	AS	5,299,132	03/29/94	Wortham		364	460		
	AT	5,400,020	03/21/95	Jones		340	994		
	ÄÜ	5,694,322	12/02/97	Westerlage, et al.		364	464		
	AV	4,791,571	12/13/88	Takahashi, et al.		364	436		
	AW	5,323,456	06/21/94	Оргеа		379	375		
	AX	4,325,057	04/13/82	Bishop		340	539		
	AY	5,544,225	08/06/96	Kennedy, III, et al.		379	59		
V	AZ	5,546,444	08/13/96	Roach, Jr., et al.		379	59		
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	BB	3,644,883	02/22/72	Borman, et al.		340	23		
	ВС	4,297,672	10/27/81	Fruchey, et al.		340	23		
	BD	4,713,661	12/15/87	Boone, et al.	<u> </u>	340	994		
	BE	5,771,455	06/23/98	Kennedy, III, et al.		455	456	\	
	BF	5,519,621	05/21/96	Wortham		364	460		
	BG	5,736,940	04/07/98	Burgener		340	994		
	ВН	5,021,780	06/04/91	Fabiano, et al.		340	994		-
	· BI	5,461,374	10/24/95	Lewiner, et al.		340	994		
	BJ	5,673,305	09/30/97	Ross		379	58		
$\bigvee$	BK	5,699,275	12/16/97	Beasley, et al.		364	514 R		
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1		BM	4,799,162	01/17/89	Shinkawa, et al.		364	436		***
		BN	5,579,376	11/26/96	Kennedy, III, et al.		379	60		
		во	5,526,401	06/11/96	Roach, Jr., et al.		379	59		
		BP	5,648,770	07/15/97	Ross		340	994		
		BQ	RE 35,920	10/13/98	Sorden, et al.		342	457		
		BR	5,168,451	12/01/92	Bolger		364	436		
		BS	5,444,444	08/22/95	Ross		340	994		
		BT	5,394,332	02/28/95	Kuwahara, et al.		364	449		
	L	BÜ	3,934,125	01/20/76	Macano		235	150.2		
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Page 33 of 34 Form PTO-1449 Attorney Docket No. Serial No. 050119-1072 10/686,925 INFORMATION DISCLOSURE CITATION Applicant Jones (Use several sheets if necessary) Filing Date Group 10/16/03 3661 **U.S. PATENT DOCUMENTS** Examiner Item Document Date Class Subclass Filing Date **Initials** Number If Appropriate BAS BW 3,845,289 10/29/74 French 235 151.2 BX5,122,959 06/16/92 Nathanson, et al. 364 436 BY 5,602,739 02/11/97 Haagenstad et al. 436 364 BZ5,068,656 11/26/91 Sutherland 340 989 CA 4,804,937 02/14/89 Barbiaux et al. 340 52 F CB 5,014,206 05/07/91 Scribner et al. 364 449 CC 5,724,243 03/03/98 Westerlage et al. 364 446 CD 4,220,946 09/02/80 Henriot 340 23 CE 5,739,774 04/14/89 Olandesi 340 994 CF 5,760,742 06/02/98 Branch et al. 342 457 CG 5,233,844 06/29/93 Mansell et al. 342 357 FOREIGN PATENT DOCUMENTS Document Date Class Translation Country Subclass Number Yes No OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

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		CJ	5,719,771	02/17/98	Buck et al.		364	443		
		CK	5,381,338	01/10/95	Wysocki et al.		364	449		
		CL	5,515,421	05/07/96	Sikand et al.		379	67		
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